

STERLING® 6630



STERLING® 6630 is a custom-designed carbon black featuring greater processing safety and improved cleanliness for extruded and molded rubber parts.

STERLING 6630 carbon black is a unique N550-type carbon black developed for extruded and molded rubber applications where eliminating product surface defects and minimizing scrap rate is crucial. STERLING 6630 carbon black is also designed to provide longer scorch time resulting in improved processing safety. In continuous vulcanization operations, the increased scorch time with STERLING 6630 carbon black provides more consistent and larger cell size for sponge products.

STERLING 6630 carbon black is cleaner than standard semi-reinforcing carbon blacks, which results in fewer surface defects. The improved cleanliness of STERLING 6630 carbon black also contributes to longer screen life (fewer screen changes) and less barrel, screw, and die wear from abrasion compared to conventional grades.

For applications requiring more reinforcement, STERLING 6630 provides better modulus and tensile strength than N650.

Performance Features

- Longer scorch time than standard N550 carbon blacks, resulting in:
 - improved processing safety
 - reduced scrap due to cured lumps
- Higher cleanliness than standard semi-reinforcing carbon blacks, resulting in:
 - fewer product surface defects and lower scrap rates
 - longer extruder screen life or less frequent screen changes
 - longer die life
 - less barrel and screw wear
- Good reinforcing in EPDM for consistent high-temperature, continuous-cure applications
- Better tensile strength than N650

Typical Applications for STERLING 6630 Carbon Black

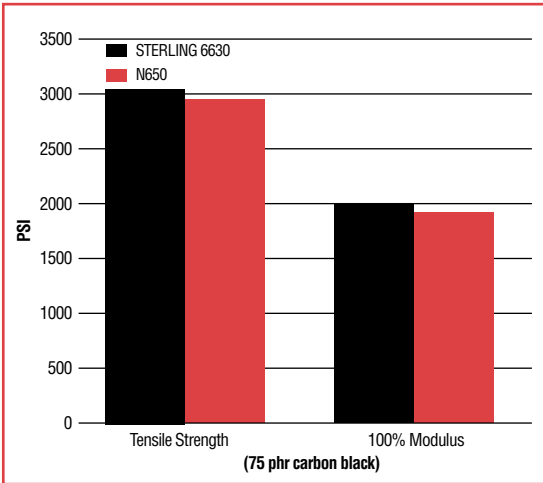
- Seals
- Weather stripping
- Hoses
- Belts
- Extruded profiles
- Mounts and bushings

STERLING 6630 and other custom carbon black products have been specially developed by Cabot Corporation's Industrial Products Business as part of the company's ongoing commitment to meet existing market needs and provide solutions for future product design and processing challenges.



Tensile Strength and Modulus in Polychloroprene

STERLING 6630 carbon black exhibits higher tensile strength and modulus than N650 at equal carbon black loadings.



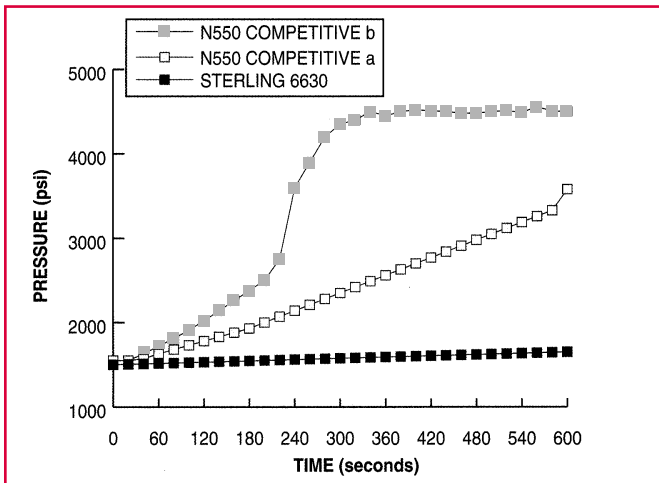
Processing Safety in NBR Compound

STERLING 6630 carbon black exhibits longer Mooney scorch times or increased processing safety at equal loadings in an NBR compound compared to N550.

Carbon Black	Polymer	Loading PHR	Mooney Visc. ML 1+4	Mooney t ₅	Scorch t ₁₀
STERLING 6630	NBR	250	36	7.0	8.1
N550	NBR	250	36	5.9	6.8

Screen Pack Pressure Rise at 100 PHR Carbon Black in EPDM

In an extrusion through a 325 mesh (44 micron) screen pack at 100 C and a rate of 50 grams/min., STERLING 6630 carbon black shows a lower rate of pressure rise than two competitive N550 grades. The new product's improved cleanliness results in slower pressure rise and fewer screen pack changes.



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